

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/656,093 b
Source: JFWO
Date Processed by STIC: 11-2-04

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IFWO

RAW SEQUENCE LISTING

DATE: 11/02/2004

PATENT APPLICATION: US/10/656,093D

TIME: 12:52:15

Input Set : A:\PTO.FY.txt

Output Set: N:\CRF4\11022004\J656093D.raw

3 <110> APPLICANT: YOUNG, ANDREW A.
 4 VINE, WILL
 5 BEELEY, NIGEL R.A.
 6 PRICKETT, KATHRYN S.
 8 <120> TITLE OF INVENTION: INOTROPIC AND DIURETIC EFFECTS OF GLP-1 AND GLP-1 AGONISTS
 10 <130> FILE REFERENCE: 256-152DIV US
 12 <140> CURRENT APPLICATION NUMBER: 10/656,093D
 13 <141> CURRENT FILING DATE: 2003-09-05
 15 <160> NUMBER OF SEQ ID NOS: 75
 17 <170> SOFTWARE: PatentIn Ver. 2.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 39
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Heloderma horridum
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Exendin-3
 27 <400> SEQUENCE: 1
 28 His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 29 1 5 10 15
 31 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 32 20 25 30
 34 Ser Gly Ala Pro Pro Pro Ser
 35 35
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 39
 40 <212> TYPE: PRT
 41 <213> ORGANISM: Heloderma suspectum
 43 <220> FEATURE:
 44 <223> OTHER INFORMATION: Exendin-4
 46 <400> SEQUENCE: 2
 47 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 48 1 5 10 15
 50 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 51 20 25 30
 53 Ser Gly Ala Pro Pro Pro Ser
 54 35
 57 <210> SEQ ID NO: 3
 58 <211> LENGTH: 30
 59 <212> TYPE: PRT
 60 <213> ORGANISM: Homo sapiens
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: GLP-1
 65 <400> SEQUENCE: 3

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66 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
67   1           5           10           15
69 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
70           20           25           30
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 39
75 <212> TYPE: PRT
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
80   exendin agonist
82 <220> FEATURE:
83 <221> NAME/KEY: MOD_RES
84 <222> LOCATION: (1)
85 <223> OTHER INFORMATION: His, Arg or Tyr
87 <220> FEATURE:
88 <221> NAME/KEY: MOD_RES
89 <222> LOCATION: (2)
90 <223> OTHER INFORMATION: Ser, Gly, Ala or Thr
92 <220> FEATURE:
93 <221> NAME/KEY: MOD_RES
94 <222> LOCATION: (3)
95 <223> OTHER INFORMATION: Asp, Ala or Glu
97 <220> FEATURE:
98 <221> NAME/KEY: MOD_RES
99 <222> LOCATION: (5)
100 <223> OTHER INFORMATION: Ala or Thr
102 <220> FEATURE:
103 <221> NAME/KEY: MOD_RES
104 <222> LOCATION: (6)
105 <223> OTHER INFORMATION: Ala, Phe, Tyr or naphthylalanine
107 <220> FEATURE:
108 <221> NAME/KEY: MOD_RES
109 <222> LOCATION: (7)
110 <223> OTHER INFORMATION: Thr or Ser
112 <220> FEATURE:
113 <221> NAME/KEY: MOD_RES
114 <222> LOCATION: (8)
115 <223> OTHER INFORMATION: Ala, Ser or Thr
117 <220> FEATURE:
118 <221> NAME/KEY: MOD_RES
119 <222> LOCATION: (9)
120 <223> OTHER INFORMATION: Asp or Glu
122 <220> FEATURE:
123 <221> NAME/KEY: MOD_RES
124 <222> LOCATION: (10)
125 <223> OTHER INFORMATION: Ala, Leu, Ile, Val, pentylglycine or Met
127 <220> FEATURE:
128 <221> NAME/KEY: MOD_RES

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Input Set : A:\PTO.FY.txt

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129 <222> LOCATION: (11)
130 <223> OTHER INFORMATION: Ala or Ser
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134 <222> LOCATION: (12)
135 <223> OTHER INFORMATION: Ala or Lys
137 <220> FEATURE:
138 <221> NAME/KEY: MOD_RES
139 <222> LOCATION: (13)
140 <223> OTHER INFORMATION: Ala or Gln
142 <220> FEATURE:
143 <221> NAME/KEY: MOD_RES
144 <222> LOCATION: (14)
145 <223> OTHER INFORMATION: Ala, Leu, Ile, pentylglycine, Val or Met
147 <220> FEATURE:
148 <221> NAME/KEY: MOD_RES
149 <222> LOCATION: (15)...(17)
150 <223> OTHER INFORMATION: Ala or Glu
152 <220> FEATURE:
153 <221> NAME/KEY: MOD_RES
154 <222> LOCATION: (19)
155 <223> OTHER INFORMATION: Ala or Val
157 <220> FEATURE:
158 <221> NAME/KEY: MOD_RES
159 <222> LOCATION: (20)
160 <223> OTHER INFORMATION: Ala or Arg
162 <220> FEATURE:
163 <221> NAME/KEY: MOD_RES
164 <222> LOCATION: (21)
165 <223> OTHER INFORMATION: Ala or Leu
167 <220> FEATURE:
168 <221> NAME/KEY: MOD_RES
169 <222> LOCATION: (22)
170 <223> OTHER INFORMATION: Phe, Tyr or naphthylalanine
172 <220> FEATURE:
173 <221> NAME/KEY: MOD_RES
174 <222> LOCATION: (23)
175 <223> OTHER INFORMATION: Ile, Val, Leu, pentylglycine, tert-butylglycine or Met
177 <220> FEATURE:
178 <221> NAME/KEY: MOD_RES
179 <222> LOCATION: (24)
180 <223> OTHER INFORMATION: Ala, Glu or Asp
182 <220> FEATURE:
183 <221> NAME/KEY: MOD_RES
184 <222> LOCATION: (25)
185 <223> OTHER INFORMATION: Ala, Trp, Phe, Tyr or naphthylalanine
187 <220> FEATURE:
188 <221> NAME/KEY: MOD_RES
189 <222> LOCATION: (26)

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Input Set : A:\PTO.FY.txt

Output Set: N:\CRF4\11022004\J656093D.raw

190 <223> OTHER INFORMATION: Ala or Leu
 192 <220> FEATURE:
 193 <221> NAME/KEY: MOD_RES
 194 <222> LOCATION: (27)
 195 <223> OTHER INFORMATION: Ala or Lys
 197 <220> FEATURE:
 198 <221> NAME/KEY: MOD_RES
 199 <222> LOCATION: (28)
 200 <223> OTHER INFORMATION: Ala or Asn
 202 <220> FEATURE:
 203 <221> NAME/KEY: MOD_RES
 204 <222> LOCATION: (29)
 205 <223> OTHER INFORMATION: Gly
 207 <220> FEATURE:
 208 <221> NAME/KEY: MOD_RES
 209 <222> LOCATION: (30)
 210 <223> OTHER INFORMATION: Gly
 212 <220> FEATURE:
 213 <221> NAME/KEY: MOD_RES
 214 <222> LOCATION: (31)
 215 <223> OTHER INFORMATION: Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine
 216 N-alkylpentylglycine or N-alkylalanine
 218 <220> FEATURE:
 219 <221> NAME/KEY: MOD_RES
 220 <222> LOCATION: (32)
 221 <223> OTHER INFORMATION: Ser
 223 <220> FEATURE:
 224 <221> NAME/KEY: MOD_RES
 225 <222> LOCATION: (33)
 226 <223> OTHER INFORMATION: Ser
 228 <220> FEATURE:
 229 <221> NAME/KEY: MOD_RES
 230 <222> LOCATION: (34)
 231 <223> OTHER INFORMATION: Gly
 233 <220> FEATURE:
 234 <221> NAME/KEY: MOD_RES
 235 <222> LOCATION: (35)
 236 <223> OTHER INFORMATION: Ala
 238 <220> FEATURE:
 239 <221> NAME/KEY: MOD_RES
 240 <222> LOCATION: (36)..(38)
 241 <223> OTHER INFORMATION: Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine
 242 N-alkylpentylglycine or N-alkylalanine
 244 <220> FEATURE:
 245 <221> NAME/KEY: MOD_RES
 246 <222> LOCATION: (39)
 247 <223> OTHER INFORMATION: Ser, Thr or Tyr
 249 <220> FEATURE:
 250 <223> OTHER INFORMATION: provided no more than three of Xaa3, Xaa5, Xaa6, Xaa8,

RAW SEQUENCE LISTING

DATE: 11/02/2004

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TIME: 12:52:15

Input Set : A:\PT0.FY.txt

Output Set: N:\CRF4\11022004\J656093D.raw

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251      Xaa10, Xaa11, Xaa12, Xaa13, Xaa14, Xaa15, Xaa16, Xaa17,
252      Xaa19, Xaa20, Xaa21, Xaa24, Xaa25, Xaa26, Xaa27 or Xaa28
253      are Ala; and the compound is not exendin-3 or exendin-4
255 <220> FEATURE:
256 <223> OTHER INFORMATION: this peptide may encompass 28-39 residues, wherein
257      residues 1-28 are constant and residues 29-39 may vary
258      in length according to the specification
260 <400> SEQUENCE: 4
W--> 261 Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
262      1              5              10              15
264 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
265      20              25              30
267 Xaa Xaa Xaa Xaa Xaa Xaa Xaa
268      35
270 <210> SEQ ID NO: 5
271 <211> LENGTH: 30
272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
277      GLP-1 agonist
279 <220> FEATURE:
280 <223> OTHER INFORMATION: C-term may be amidated
282 <400> SEQUENCE: 5
283 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
284      1              5              10              15
286 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
287      20              25              30
290 <210> SEQ ID NO: 6
291 <211> LENGTH: 28
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
297      GLP-1 agonist
299 <220> FEATURE:
300 <223> OTHER INFORMATION: C-term amidated
302 <400> SEQUENCE: 6
303 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
304      1              5              10              15
306 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
307      20              25
310 <210> SEQ ID NO: 7
311 <211> LENGTH: 28
312 <212> TYPE: PRT
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
317      GLP-1 agonist

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/656,093D

DATE: 11/02/2004
TIME: 12:52:16

Input Set : A:\PTO.FY.txt

Output Set: N:\CRF4\11022004\J656093D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. ~~1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,20,21,22,23,24~~

Seq#:4; Xaa Pos. ~~25,26,27,28,29,30,31,32,33,34,35,36,37,38,39~~

Seq#:47; Xaa Pos. 31,36,37,38

Seq#:48; Xaa Pos. 36,37,38

Seq#:49; Xaa Pos. 31

Seq#:50; Xaa Pos. 31,36,37

Seq#:51; Xaa Pos. 31,36,37

Seq#:52; Xaa Pos. 31,36

Seq#:55; Xaa Pos. 6

Seq#:59; Xaa Pos. 10

Seq#:60; Xaa Pos. 22

Seq#:61; Xaa Pos. 23

Seq#:65; Xaa Pos. 31,36,37

Seq#:66; Xaa Pos. 19

Seq#:67; Xaa Pos. 17

Seq#:75; Xaa Pos. 29

VERIFICATION SUMMARY

DATE: 11/02/2004

PATENT APPLICATION: US/10/656,093D

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Input Set : A:\PTO.FY.txt

Output Set: N:\CRF4\11022004\J656093D.raw

L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:1160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:16
M:341 Repeated in SeqNo=47
L:1191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:32
L:1216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:16
L:1249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:16
M:341 Repeated in SeqNo=50
L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:16
M:341 Repeated in SeqNo=51
L:1315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:16
M:341 Repeated in SeqNo=52
L:1383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:1468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:16
L:1521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:16
L:1614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:16
M:341 Repeated in SeqNo=65
L:1660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:16
L:1667 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:67
L:1694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:16
L:1895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:16